# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 11/08/2019 11:00 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 10/08/2019 01:46 PM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 80996 | Expiration Date: | 04/30/2020 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124783 | -1 | 2.25 | 124871 | 2.28 |
| Blue | F | SSC | 125000 | 123876 | -1 | 1.57 | 124642 | 1.51 |
| Blue | E | FITC | 16433 | 16033 | -3 | 2.80 | 349 | 19.90 |
| Blue | D | PE | 27595 | 27261 | -2 | 1.95 | 594 | 15.09 |
| Blue | B | PerCP-Cy5-5 | 43183 | 43066 | -1 | 3.68 | 1162 | 20.24 |
| Blue | A | PE-Cy7 | 31943 | 31918 | -1 | 6.04 | 616 | 39.61 |
| Red | C | APC | 42819 | 42222 | -2 | 2.36 | 1493 | 11.90 |
| Red | A | APC-Cy7 | 31261 | 30340 | -3 | 2.32 | 810 | 12.28 |
| Violet | B | V450 | 6527 | 6239 | -5 | 4.47 | 350 | 13.74 |
| Violet | A | V500 | 24533 | 23375 | -5 | 4.26 | 543 | 10.47 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 18102 | 11.50 | 610 | 10 | N/A | N/A | Pass |
| Blue | F | SSC | 56410 | 1.15 | 551 | 3 | N/A | N/A | Pass |
| Blue | E | FITC | 64 | 62.06 | 539 | 0 | 0.0202 | 109 | Pass |
| Blue | D | PE | 123 | 48.82 | 536 | 2 | 0.1406 | 204 | Pass |
| Blue | B | PerCP-Cy5-5 | 213 | 48.37 | 649 | 7 | 0.0090 | 16 | Pass |
| Blue | A | PE-Cy7 | 116 | 96.27 | 696 | 7 | 0.0114 | 12 | Pass |
| Red | C | APC | 356 | 25.96 | 581 | -2 | 0.0265 | 287 | Pass |
| Red | A | APC-Cy7 | 178 | 28.86 | 560 | -3 | 0.0051 | 656 | Pass |
| Violet | B | V450 | 54 | 59.30 | 451 | -4 | 0.0413 | 1577 | Pass |
| Violet | A | V500 | 81 | 30.37 | 462 | -5 | 0.0220 | 262 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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| Input Device: | Carousel | Date: | 11/08/2019 11:00 AM |
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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -32.50 | -31.67 | 0.99 |
| Blue | 20.34 | 16.27 - 24.41 | 1.26 | 0.99 - 1.49 | 0.00 | 0.00 | 1.51 |
| Red | 15.51 | 13.60 - 20.40 | N/A | N/A | 28.99 | 29.80 | 1.20 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.93

## Threshold

Threshold (FSC): 10064

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments